

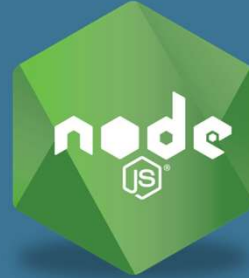
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PART – 9

➤ MongoDB Database
Integration in NodeJS



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Crash Course

Contents

- **Introduction to MongoDB**
- MongoDB Installation
- MongoDB Connection in NodeJS
- MongoDB Hands on



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Introduction to MongoDB

- MongoDB is an open source, cross-platform, document-oriented database program.
- It is classified as a NoSQL database program.
- MongoDB uses JSON-like documents with optional schemas.
- MongoDB is developed by MongoDB Inc.
- Latest Version 4.4.5



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Introduction to MongoDB

- Example MongoDB Document:

```
{
  "student": {
    "name": "John",
    "class": "Intermediate",
    "address": {
      "street": "2293 Example Street",
      "City": "Chicago",
      "State": "IL"
    }
  }
}
```



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MongoDB Installation

- Follow the below link:
- <https://docs.mongodb.com/manual/installation/>
- 1.Download MongoDB for Windows :
- https://www.mongodb.com/try/download/community?tck=docs_server
- 2.Install MongoDB
- 3.Create database directory
- 4.Start/Stop MongoDB Server
- 5.Connect to MongoDB



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MongoDB Connection in NodeJS

- Install npm package to use in NodeJS
- npm install mongoose
- ```
mongoose.connect('connection_path',(err)=>{
 if(!error) connection success
 else connection failed
})
```



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# MongoDB Hands On CRUD Operations

- Show Database – `show dbs`
- Create Database – use `databaseName`
- To Check Current Database – `db`
- Delete Database – after selecting db, `db.dropDatabase()`
- Create Collection – `db.createCollection(name,options)`
- Delete Collection – `db.collectionName.drop()`



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# MongoDB Hands On CRUD Operations

- Insert Document – `db.collectionName.insert(jsonObject);`
- Query Document –  
`db.collectionName.find(),`  
`db.collectionName.find().pretty(),`  
`db.collectionName.find({key:"value"}),`  
Clauses – and, or, greater than, less than
- Update Document –  
`db.collectionName.update('identifier','data to save')` or  
`db.collectionName.save('identifier','data to save')`
- Delete Document – `remove({key:"value"})`



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# MongoDB Hands On CRUD Operations

- Models (Optional)
- Let's take example for doing crud operations on Users Management.
- Create User (/createUser) - save()
- Get All Users (/getUsers) - find()
- Get Single User (/getUserById/:id) - findById()
- Update User (/updateUser) - findOneAndUpdate(), findByIdAndUpdate()
- Delete User (/deleteUser) - remove(), findByIdAndRemove()
- Limited Records - limit(number)
- Sorting Records - sort({key:"value"})
- MongoDUMP - mongodump -- db dbName -o outputDirectory
- MongoRestore - mongorestore -- db dbName dumpDatabasePath



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## Contents

- ✓ Introduction to MongoDB
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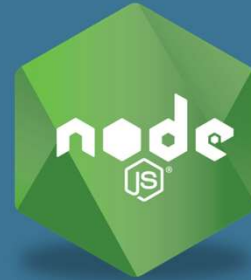
## PART – 10

Next part

➤ GraphQL in NodeJS



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